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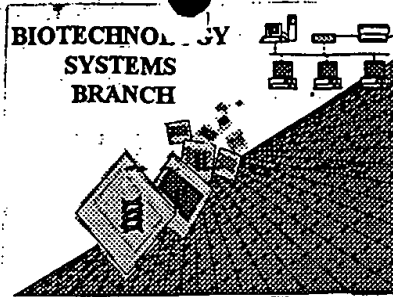
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

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Image Problem Mailbox.**

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/620,840

Source: BATCH

Date Processed by STIC: 11/30/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/620,840

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism (NEW RULES) Sequence(s) are missing this mandatory field or its response.
- 12 Use of <220>Feature (NEW RULES) Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

BATCH

RAW SEQUENCE LISTING
PATENT APPLICATION US/99/620,840

DATE: 11/30/2000
TIME: 11:10:42

Input Seq: A:\lenbont1.app
Output Seq: N:\CRF3\11302000\1620840.raw

Does Not Comply
Corrected Diskette Needed

see pp 2-3, 5

1 <110> APPLICANT: STEWARD, LANCE F
2 HERRINGTON, TODD H
3 AGRI, SEI E
4 <120> TITLE OF INVENTION: LEUCINE-BASED MOTIF AND CLOSTRIDIAL NEUREXIN
5 <130> FILE REFERENCE: leucine-based motif and clostridial CF
6
7
8
9
10
11 <140> CURRENT APPLICATION NUMBER: US/09/620,840
12 <141> CURRENT FILING DATE: 2000-07-21
13 <150> NUMBER OF SEQ ID NOS: 15
14 <170> SOFTWARE: PatentIn Ver. 2.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 7
17 <212> TYPE: PRI
18 <213> ORGANISM: Artificial Sequence
19 <220> FEATURE:
20 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
21 properties substantially similar to that of
22 leucine based sequence
23 <230> FEATURE:
24 <233> OTHER INFORMATION: X may be any amino acid or derivatives thereof
25
26
27
28
29
30
31 <400> SEQUENCE: 1
32 Xaa Asp Xaa Xaa Xaa Leu Leu
33 1 5
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 7
36 <212> TYPE: PRI
37 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
40 properties substantially similar to leucine based
41 motif
42 <230> FEATURE:
43 <233> OTHER INFORMATION: X may be any amino acid or derivatives thereof
44
45
46
47
48
49 <400> SEQUENCE: 2
50 Xaa Glu Xaa Xaa Xaa Leu Leu
51 1 5
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 7
54 <212> TYPE: PRI
55 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
58 properties substantially similar to that of
59 leucine based motif
60 <400> SEQUENCE: 3
61 Xaa Asp Xaa Xaa Xaa Leu Ile
62 1 5
63 <210> SEQ ID NO: 4

see item 10 on Error Summary sheet

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/620,840

DATE: 11/30/2000
 TIME: 11:10:12

Input Set : A:\Leubontl.app
 Output Set: N:\CRF3\11302000\I620840.raw

```

76 <211> LENGTH: 7
77 <212> TYPE: PRI
78 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
    properties substantially similar to that of
    leucine based motif
81 <400> SEQUENCE: 1
W--> 80 Xaa Asp Xaa Xaa Xaa Leu Met
82
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 7
85 <212> TYPE: PRI
86 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
    properties substantially similar to that of
    leucine based motif
89 <400> SEQUENCE: 5
W--> 97 Xaa Glu Xaa Xaa Xaa Leu Ile
90
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 7
93 <212> TYPE: PRI
94 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
    properties substantially similar to leucine based
    motif
97 <400> SEQUENCE: 6
W--> 110 Xaa Glu Xaa Xaa Xaa Leu Met
111
112 <210> SEQ ID NO: 7
113 <211> LENGTH: 7
114 <212> TYPE: PRI
115 <213> ORGANISM: Unknown Organism
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment may
    have come from a rat source.
118 <400> SEQUENCE: 7
119 Phe Glu Phe Tyr Lys Leu Leu
120 1 5
121
122 <210> SEQ ID NO: 8
123 <211> LENGTH: 7
124 <212> TYPE: PRI
125 <213> ORGANISM: rat
126 <220> FEATURE:
127 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VMAT 1".
128 <300> PUBLICATION INFORMATION:

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/620,840

DATE: 11/30/2000
TIME: 11:10:42

Input Set : A:\Leubont1.app
Output Set: N:\CRF3\11302000\I620840.raw

137 <301> AUTHORS: Liu, et al
138 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
139 the regulation of synaptic transmission
140 <303> JOURNAL: Trends in Cell Biology
141 <304> VOLUME: 9
142 <306> PAGES: 356-363
W--> 143 <307> DATE: September 1999
144 <400> SEQUENCE: 3
145 Glu Glu Lys Arg Ala Ile Leu
146 1 5
149 <210> SEQ ID NO: 9
151 <211> LENGTH: 7
152 <212> TYPE: PRT
153 <213> ORGANISM: rat
155 <220> FEATURE:
156 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VNA1 2".
158 <300> PUBLICATION INFORMATION:
159 <301> AUTHORS: Liu, et al
160 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
161 the regulation of synaptic transmission
162 <303> JOURNAL: Trends in Cell Biology
163 <304> VOLUME: 9
164 <306> PAGES: 356-363
W--> 165 <307> DATE: September 1999
166 <400> SEQUENCE: 4
167 Glu Glu Lys Met Ala Ile Leu
168 1 5
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 7
174 <212> TYPE: PRT
175 <213> ORGANISM: rat
177 <220> FEATURE:
178 <223> OTHER INFORMATION: This fragment is known as "Rat VACHT".
180 <220> FEATURE:
181 <223> OTHER INFORMATION: The at position 1 may be phosphorylated.
183 <300> PUBLICATION INFORMATION:
184 <301> AUTHORS: Liu, et al
185 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
186 the regulation of synaptic transmission
187 <303> JOURNAL: Trends in Cell Biology
188 <304> VOLUME: 9
189 <306> PAGES: 356-363
W--> 190 <307> DATE: September 1999
192 <400> SEQUENCE: 10
193 Ser Glu Arg Asp Val Leu Leu
194 1 5
197 <210> SEQ ID NO: 11
198 <211> LENGTH: 7
199 <212> TYPE: PRT

*per new sequence Rules, use the following
format for
date:
SEP-1999.*

same

Do you mean "The Serine at position 1?"

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/620,840

DATE: 11/30/2000
 TIME: 11:10:12

Input Set : A:\Leubont1.app
 Output Set: N:\CRF3\11302000\I620840.raw

```

200 <213> ORGANISM: rat
202 <220> FEATURE:
203 <223> OTHER INFORMATION: This fragment is known as "rat (delta)".
205 <400> SEQUENCE: 12
206 Val Asp Thr Gln Val Leu Leu
207   1           5
210 <210> SEQ ID NO: 12
211 <211> LENGTH: 7
212 <212> TYPE: PRT
213 <213> ORGANISM: mouse
215 <220> FEATURE:
216 <223> OTHER INFORMATION: This fragment is also known as "mouse (delta)".
218 <400> SEQUENCE: 12
219 Ala Gln Val Gln Ala Leu Leu
220   1           5
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 7
225 <212> TYPE: PRT
226 <213> ORGANISM: frog
228 <220> FEATURE:
229 <223> OTHER INFORMATION: This fragment is known as "frog (gamma/delta)".
231 <220> FEATURE:
232 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
234 <400> SEQUENCE: 13
235 Ser Asp Lys Gln Asn Leu Leu
236   1           5
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 7
241 <212> TYPE: PRT
242 <213> ORGANISM: chicken
244 <220> FEATURE:
245 <223> OTHER INFORMATION: This fragment is also known as "chicken
246   (gamma/delta)".
248 <220> FEATURE:
249 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
251 <400> SEQUENCE: 14
252 Ser Asp Arg Gln Asn Leu Ile
253   1           5
256 <210> SEQ ID NO: 15
257 <211> LENGTH: 7
258 <212> TYPE: PRT
259 <213> ORGANISM: sheep
261 <220> FEATURE:
262 <223> OTHER INFORMATION: This fragment is known as "Sheep (delta)".
264 <400> SEQUENCE: 15
265 Ala Asp Thr Gln Val Leu Met
266   1           5
269 <210> SEQ ID NO: 16
270 <211> LENGTH: 7

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/620,840

DATE: 11/30/2000
 TIME: 11:10:12

Input Set : A:\Leubont1.app
 Output Set: N:\CRF3\11302000\I620840.raw

271 <210> TYPE: PRI
 272 <213> ORGANISM: human
 273 <214> FEATURE:
 275 <223> OTHER INFORMATION: This fragment is known as "Human CD3(delta)".
 277 <220> FEATURE:
 278 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
 280 <400> PUBLICATION INFORMATION:
 281 <401> AUTHORS: Liu, et al
 282 <402> TITLE: Membrane trafficking of neurotransmitter transporter in
 283 the regulation of synaptic transmission
 284 <403> JOURNAL: Trends in Cell Biology
 285 <404> VOLUME: 9
 286 <406> PAGES: 356-361

W--> 287 <307> DATE: September 1999

288 <400> SEQUENCE: 16
 290 Ser Asp Lys Gln Thr Leu Leu
 291 1 5
 294 <210> SEQ ID NO: 17
 295 <211> LENGTH: 7
 296 <212> TYPE: PRI
 297 <213> ORGANISM: human
 299 <220> FEATURE:
 300 <223> OTHER INFORMATION: This fragment is known as "Human CD4".
 302 <220> FEATURE:
 303 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
 305 <400> PUBLICATION INFORMATION:
 306 <401> AUTHORS: Liu, et al
 307 <402> TITLE: Membrane trafficking of neurotransmitter transporter in
 308 the regulation of synaptic transmission
 309 <403> JOURNAL: Trends in Cell Biology
 310 <404> VOLUME: 9
 311 <406> PAGES: 356-361

W--> 312 <307> DATE: September 1999

313 <400> SEQUENCE: 17
 315 Ser Gln Ile Lys Arg Leu Leu
 316 1 5
 319 <210> SEQ ID NO: 18
 320 <211> LENGTH: 7
 321 <212> TYPE: PRI
 322 <213> ORGANISM: human
 324 <220> FEATURE:
 325 <223> OTHER INFORMATION: This fragment is known as "Human (delta)".
 327 <400> SEQUENCE: 18
 328 Ala Asp Thr Gln Ala Leu Leu
 329 1 5

VERIFICATION SUMMARY
 PATENT APPLICATION: US/09/620,840

DATE: 11/30/2000
 TIME: 11:10:13

Input Set : A:\Leubontl.app
 Output Set: N:\CRF3\11302000\1620840.raw

L:11 M:270 C: Current Application Number differs. Replaced Current Application Number
 L:12 M:271 C: Current Filing Date differs. Replaced Current Filing Date
 L:13 M:272 W: Mandatory Feature missing. <221> not found for SEQ ID:1
 L:14 M:273 W: Mandatory Feature missing. <221> not found for SEQ ID:1
 L:15 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID:1
 L:16 M:276 W: Mandatory Feature missing. <221> not found for SEQ ID:2
 L:17 M:278 W: Mandatory Feature missing. <221> not found for SEQ ID:2
 L:18 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID:2
 L:19 M:278 W: Mandatory Feature missing. <221> not found for SEQ ID:3
 L:20 M:278 W: Mandatory Feature missing. <222> not found for SEQ ID:3
 L:21 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID:3
 L:22 M:278 W: Mandatory Feature missing. <221> not found for SEQ ID:4
 L:23 M:278 W: Mandatory Feature missing. <222> not found for SEQ ID:4
 L:24 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID:4
 L:25 M:278 W: Mandatory Feature missing. <221> not found for SEQ ID:5
 L:26 M:278 W: Mandatory Feature missing. <222> not found for SEQ ID:5
 L:27 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID:5
 L:28 M:278 W: Mandatory Feature missing. <221> not found for SEQ ID:6
 L:29 M:278 W: Mandatory Feature missing. <222> not found for SEQ ID:6
 L:30 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID:6
 L:31 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY. Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
 L:32 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY. Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
 L:33 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY. Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
 L:34 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY. Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
 L:35 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY. Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
 L:36 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY. Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY

09/620840

Application No.: _____

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

BATCH

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/620,840 DATE: 11/30/2000
 TIME: 11:10:42

Input Set : A:\Leubont1.app
 Output Set: N:\CRF3\11302000\I620840.raw

Does Not Comply
 Corrected Diskette Needed

see pp 2-3, 5

3 <110> APPLICANT: STEWARD, LANCE E
 4 HERRINGTON, TODD M
 5 AOKI, KEI R
 7 <120> TITLE OF INVENTION: LEUCINE-BASED MOTIF AND CLOSTRIDIAL NEUROTOXIN
 9 <130> FILE REFERENCE: leucine-based motif and clostridial tx
 OK--> 11 <140> CURRENT APPLICATION NUMBER: US/09/620,840
 12 <141> CURRENT FILING DATE: 2000-07-21
 14 <160> NUMBER OF SEQ ID NOS: 18
 16 <170> SOFTWARE: PatentIn Ver. 2.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 7
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Artificial Sequence
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
 25 properties substantially similar to that of
 26 leucine based sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
 31 <400> SEQUENCE: 1
 OK--> 32 Xaa Asp Xaa Xaa Xaa Leu Leu
 33 1 5
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 7
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Artificial Sequence
 41 <220> FEATURE:
 42 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
 43 properties substantially similar to leucine based
 44 motif
 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
 49 <400> SEQUENCE: 2
 OK--> 50 Xaa Glu Xaa Xaa Xaa Leu Leu
 51 1 5
 54 <210> SEQ ID NO: 3
 55 <211> LENGTH: 7
 56 <212> TYPE: PRT
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
 61 properties substantially similar to that of
 62 leucine based motif
 64 <400> SEQUENCE: 3
 W--> 65 Xaa Asp Xaa Xaa Xaa Leu Ile *see item 10 on Enr Summary Sheet*
 66 1 5
 69 <210> SEQ ID NO: 4

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/620,840
 DATE: 11/30/2000
 TIME: 11:10:42

Input Set : A:\Leubont1.app
 Output Set: N:\CRF3\11302000\I620840.raw

70 <211> LENGTH: 7
 71 <212> TYPE: PRT
 72 <213> ORGANISM: Artificial Sequence
 74 <220> FEATURE:
 75 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
 76 properties substantially similar to that of
 77 leucine based motif
 79 <400> SEQUENCE: 4
 W--> 80 Xaa Asp Xaa Xaa Xaa Leu Met *item 10*
 81
 84 <210> SEQ ID NO: 5
 85 <211> LENGTH: 7
 86 <212> TYPE: PRT
 87 <213> ORGANISM: Artificial Sequence
 89 <220> FEATURE:
 90 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
 91 properties substantially similar to that of
 92 leucine based motif
 94 <400> SEQUENCE: 5
 W--> 95 Xaa Glu Xaa Xaa Xaa Leu Ile
 96
 99 <210> SEQ ID NO: 6
 100 <211> LENGTH: 7
 101 <212> TYPE: PRT
 102 <213> ORGANISM: Artificial Sequence
 104 <220> FEATURE:
 105 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
 106 properties substantially similar to leucine based
 107 motif
 109 <400> SEQUENCE: 6
 W--> 110 Xaa Glu Xaa Xaa Xaa Leu Met
 111
 114 <210> SEQ ID NO: 7
 115 <211> LENGTH: 7
 116 <212> TYPE: PRT
 117 <213> ORGANISM: Unknown Organism
 119 <220> FEATURE:
 120 <223> OTHER INFORMATION: Description of Unknown Organism:This fragment may
 121 have come from a rat source.
 123 <400> SEQUENCE: 7
 124 Phe Glu Phe Tyr Lys Leu Leu
 125 1 5
 128 <210> SEQ ID NO: 8
 129 <211> LENGTH: 7
 130 <212> TYPE: PRT
 131 <213> ORGANISM: rat
 133 <220> FEATURE:
 134 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VMAT 1".
 136 <300> PUBLICATION INFORMATION:

RAW SEQUENCE LISTING

DATE: 11/30/2000

PATENT APPLICATION: US/09/620,840

TIME: 11:10:42

Input Set : A:\Leubont1.app

Output Set: N:\CRF3\11302000\I620840.raw

137 <301> AUTHORS: Liu, et al
 138 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 139 the regulation of synaptic transmission
 140 <303> JOURNAL: Trends in Cell Biology
 141 <304> VOLUME: 9
 142 <306> PAGES: 356-363
 W--> 143 <307> DATE: September 1999
 145 <400> SEQUENCE: 8
 146 Glu Glu Lys Arg Ala Ile Leu
 147 1 5
 150 <210> SEQ ID NO: 9
 151 <211> LENGTH: 7
 152 <212> TYPE: PRT
 153 <213> ORGANISM: rat.
 155 <220> FEATURE:
 156 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VMAT 2".
 158 <300> PUBLICATION INFORMATION:
 159 <301> AUTHORS: Liu, et al
 160 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 161 the regulation of synaptic transmission
 162 <303> JOURNAL: Trends in Cell Biology
 163 <304> VOLUME: 9
 164 <306> PAGES: 356-363
 W--> 165 <307> DATE: September 1999
 167 <400> SEQUENCE: 9
 168 Glu Glu Lys Met Ala Ile Leu
 169 1 5
 172 <210> SEQ ID NO: 10
 173 <211> LENGTH: 7
 174 <212> TYPE: PRT
 175 <213> ORGANISM: rat.
 177 <220> FEATURE:
 178 <223> OTHER INFORMATION: This fragment is known as "Rat VACht".
 180 <220> FEATURE:
 181 <223> OTHER INFORMATION: The at position 1 may be phosphorylated.
 183 <300> PUBLICATION INFORMATION:
 184 <301> AUTHORS: Liu, et al
 185 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 186 the regulation of synaptic transmission
 187 <303> JOURNAL: Trends in Cell Biology
 188 <304> VOLUME: 9
 189 <306> PAGES: 356-363
 W--> 190 <307> DATE: September 1999
 192 <400> SEQUENCE: 10
 193 Ser Glu Arg Asp Val Leu Leu
 194 1 5
 197 <210> SEQ ID NO: 11
 198 <211> LENGTH: 7
 199 <212> TYPE: PRT

*per new sequence Rules, use the following
 format for
 date:
 SEP-1999*

same

Do you mean "the Serine at position 1?"

RAW SEQUENCE LISTING DATE: 11/30/2000
PATENT APPLICATION: US/09/620,840 TIME: 11:10:42

Input Set : A:\Leubont1.app
Output Set: N:\CRF3\11302000\I620840.raw

200 <213> ORGANISM: rat
202 <220> FEATURE:
203 <223> OTHER INFORMATION: This fragment is known as "Rat (delta)".
205 <400> SEQUENCE: 11
206 Val Asp Thr Gln Val Leu Leu
207 1 5
210 <210> SEQ ID NO: 12
211 <211> LENGTH: 7
212 <212> TYPE: PRT
213 <213> ORGANISM: mouse
215 <220> FEATURE:
216 <223> OTHER INFORMATION: This fragment is also known as "mouse (delta)".
218 <400> SEQUENCE: 12
219 Ala Gln Val Gln Ala Leu Leu
220 1 5
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 7
225 <212> TYPE: PRT
226 <213> ORGANISM: frog
228 <220> FEATURE:
229 <223> OTHER INFORMATION: This fragment is known as "frog (gamma/delta)".
231 <220> FEATURE:
232 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
234 <400> SEQUENCE: 13
235 Ser Asp Lys Gln Asn Leu Leu
236 1 5
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 7
241 <212> TYPE: PRT
242 <213> ORGANISM: chicken
244 <220> FEATURE:
245 <223> OTHER INFORMATION: This fragment is also known as "chicken
246 (gamma/delta)".
248 <220> FEATURE:
249 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
251 <400> SEQUENCE: 14
252 Ser Asp Arg Gln Asn Leu Ile
253 1 5
256 <210> SEQ ID NO: 15
257 <211> LENGTH: 7
258 <212> TYPE: PRT
259 <213> ORGANISM: sheep
261 <220> FEATURE:
262 <223> OTHER INFORMATION: This fragment is known as "Sheep (delta)".
264 <400> SEQUENCE: 15
265 Ala Asp Thr Gln Val Leu Met
266 1 5
269 <210> SEQ ID NO: 16
270 <211> LENGTH: 7

RAW SEQUENCE LISTING DATE: 11/30/2000
 PATENT APPLICATION: US/09/620,840 TIME: 11:10:42

Input Set : A:\Leubontl.app
 Output Set: N:\CRF3\11302000\I620840.raw

```

271 <212> TYPE: PRT
272 <213> ORGANISM: human
274 <220> FEATURE:
275 <223> OTHER INFORMATION: This fragment is known as "Human CD3(delta)".
277 <220> FEATURE:
278 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
280 <300> PUBLICATION INFORMATION:
281 <301> AUTHORS: Liu, et al
282 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
283       the regulation of synaptic transmission
284 <303> JOURNAL: Trends in Cell Biology
285 <304> VOLUME: 9
286 <306> PAGES: 356-363
W--> 287 <307> DATE: September 1999
289 <400> SEQUENCE: 16
290 Ser Asp Lys Gln Thr Leu Leu
291   1               5
294 <210> SEQ ID NO: 17
295 <211> LENGTH: 7
296 <212> TYPE: PRT
297 <213> ORGANISM: human
299 <220> FEATURE:
300 <223> OTHER INFORMATION: This fragment is known as "Human CD4".
302 <220> FEATURE:
303 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
305 <300> PUBLICATION INFORMATION:
306 <301> AUTHORS: Liu, et al
307 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
308       the regulation of synaptic transmission
309 <303> JOURNAL: Trends in Cell Biology
310 <304> VOLUME: 9
311 <306> PAGES: 356-363
W--> 312 <307> DATE: September 1999
314 <400> SEQUENCE: 17
315 Ser Gln Ile Lys Arg Leu Leu
316   1               5
319 <210> SEQ ID NO: 18
320 <211> LENGTH: 7
321 <212> TYPE: PRT
322 <213> ORGANISM: human
324 <220> FEATURE:
325 <223> OTHER INFORMATION: This fragment is known as "Human (delta)".
327 <400> SEQUENCE: 18
328 Ala Asp Thr Gln Ala Leu Leu
329   1               5

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/620,840

DATE: 11/30/2000

TIME: 11:10:43

Input Set : A:\Leubontl.app

Output Set: N:\CRF3\11302000\I620840.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:32 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:32 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:32 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:50 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:50 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:50 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:65 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:65 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:65 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:80 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:80 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:80 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:95 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:95 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:95 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5
L:110 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:110 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:110 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6
L:143 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY, Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
L:165 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY, Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
L:190 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY, Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
L:287 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY, Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY
L:312 M:285 W: Invalid Journal Date: Wrong YYYY-MM-DD,MMM-YYYY or SEASON-YYYY, Wrong Journal Date:YYYY-MM-DD,MMM-YYYY or Season-YYYY